

25144034.w MPQTSAWQLNDTTAARPPPPPPGSEAGGSQDGASMGANTLYRVSERKVSAAKTSNIRFRKRPHLPHSTRPLSAVLTSSSSPVVHRRKISPPSSAPSTSSAHRFSHLPQHNFHHHHHNQTAVISSEETLTTPRASITLNQTSVFTAISQGSMNSCINTAEASMTSSVCA METEGTNGDELAESRDVMSEMQRRCRIG
 31238489.i MEVSTHTTSTLSR-S-
 40254281.m -SNSRTSNSSELEKELDLDISGG-ANNKSNTLKKRISSSRTPAK-
 DCAMKL2.h -MASTRSIELELFEEERDKRPRPGSRRGAPSSGGSSISGKKGNLIP-SPAHSAHCFSYFVRLQALSEK-
 17985955.m -MASTRSIELELFEEERDKRPRPGSRRGAPSSGGSSISGKKGNLIP-SPAHSAHCFSYFVRLQALSEK-
 9910164.m -MFCGDMELEIFDERRDKAQ-R-YSRGSRVNG-L-SPTHSAHCFSYFVRLQALSEK-
 DCAMKL1.h -MFCGDMELEIFDERRDKAQ-R-YSRGSRVNG-L-SPTHSAHCFSYFVRLQALSEK-
 34857906.m MTEPR-
 2phk_A -MFCGDMELEIFDERRDKAQ-R-YSRGSRVNG-L-SPTHSAHCFSYFVRLQALSEK-
 1jkk_A -MFCGDMELEIFDERRDKAQ-R-YSRGSRVNG-L-SPTHSAHCFSYFVRLQALSEK-
 34866453.m MPMFSPQSSLHHSVRAEHSPLKFRRVVTVVKLGVQFLRKATLLLNRSVQTFEQQLSDISEALGFPWRKNDVRKLFITLKGRREVKVSDFFRREGDAFIAMGKEPLTLKSIQLAMBEYP-KNRALALAPISRVPSPLRSR
 27370432.m MGKEPLTLKSIQLAMBEYP-KNRALALAPISRVPSPLRSR
 DCAMKL3.h MGKEPLTLKSIQLAMBEYP-KNRALALAPISRVPSPLRSR
 lia8_A
 1kwp_A
 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400
 25144034.w PSGYPHLLKAVRIFPFYRNQDQYFKGQIYALQSDRVKSMQPLNEDLMKTVICDSTALPHGTRHIFTIDGACRITSVDQFEDGGYVCSS-TDAFKFWDYEERAEPSPWRLTLANRYNRHELTKKLALS-VVEPCHENTDVFVPRITKVIRNGVKPRXISRLINNKTA
 31238489.i KARRIFEFFRNGDCKFYGSTIPVSVBERRYSFDSLTEDLTR-LLEDSVTLTGAIKAYTILECKK-IEKVDDLELEDGKCYVCSNNEGFKFRIDYNNVNTNIN-NRLSRLRIPLSPVKNGNSGNTPLKBIIDSVVPVPRIVTLIRNGVKP
 40254281.m KANKCFYRNQDGRYFKGLVLFVAISNDRFRSDALLIELTR-SLEDNVNLPGQVRTIYTIDGSKRTVSLDELGE-SYVCASENPFPRKVDTCKVNIN-NWSVNIKGCTTR-TLAVAS-AKSEVKESKDFKPLKVLTVIRSGVKP
 DCAMKL2.h KANKCFYRNQDGRYFKGLVLFVAISNDRFRSDALLIELTR-SLEDNVNLPGQVRTIYTIDGSKRTVSLDELGE-SYVCASENPFPRKVDTCKVNIN-NWSVNIKGCTTR-TLAVAS-AKSEVKESKDFKPLKVLTVIRSGVKP
 17985955.m KANKCFYRNQDGRYFKGLVLFVAISNDRFRSDALLIELTR-SLEDNVNLPGQVRTIYTIDGSKRTVSLDELGE-SYVCASENPFPRKVDTCKVNIN-NWSVNIKGCTTR-TLAVAS-AKSEVKESKDFKPLKVLTVIRSGVKP
 9910164.m KANKCFYRNQDGRYFKGLVLFVAISNDRFRSDALLIELTR-SLEDNVNLPGQVRTIYTIDGSKRTVSLDELGE-SYVCGSIEPFKKLEYTKVNPNPWSVNVKTTSARAVSLATAKGPSPEVRNKDFIRPKLVTIIRSGVKP
 DCAMKL1.h KANKCFYRNQDGRYFKGLVLFVAISNDRFRSDALLIELTR-SLEDNVNLPGQVRTIYTIDGSKRTVSLDELGE-SYVCGSIEPFKKLEYTKVNPNPWSVNVKTTSARAVSLATAKGPSPEVRNKDFIRPKLVTIIRSGVKP
 34857906.m CKDLIWEDQSQAQIDQSYEQYVGDKDVNTIICVTCLODF-FGDDDFVIAQCPPEKYRAQDDFVLDHSECRVLKSS-YVGRAS--AAKMSGRSPQLSRSSKSPASG-SNRGPVQGLRCMLFLVFAVDCACIKBDILQCTGHSLRPARYGT
 2phk_A GVVVKRLYTLDGKQVMC
 1jkk_A CKDLIWEDQSQAQIDQSYEQYVGDKDVNTIICVTCLODF-FGDDDFVIAQCPPEKYRAQDDFVLDHSECRVLKSS-YVGRAS--AAKMSGRSPQLSRSSKSPASG-SNRGPVQGLRCMLFLVFAVDCACIKBDILQCTGHSLRPARYGT
 34866453.m LP SKLINGSRRCGEAG--SYGEVGMGNKAVIRHQGKTSTELAPEDKARAQKKWWGGQESENGGLPSPREATGETHASEGEKHLGVIEKISGELVRCCEKCKRETELQGLQLRQCCPGTSELDDLRGQKRDSEKLVTRKSCRA
 27370432.m SYAEMSEKSVRSHQGKTSVTLAPPEDKARAQK-WVRGKQESEPGQGPPSPGAATQGETHASEGEKHLGVIEKISGELVRCCEKCKRETELQGLQLRQCCPGTSELDDLRGQKRDSEKLVTRKSCRA
 DCAMKL3.h LF SKLINGSRRCGEAG--SYAEMSEKSVRSHQGKTSVTLAPPEDKARAQK-WVRGKQESEPGQGPPSPGAATQGETHASEGEKHLGVIEKISGELVRCCEKCKRETELQGLQLRQCCPGTSELDDLRGQKRDSEKLVTRKSCRA
 lia8_A
 1kwp_A
 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600
 25144034.w LQDFRDDDVFVAYGG-NEKMAADDLLVASEEHKSVGG-TSSNNRRSRSPSTMNR-NESLRHPSDGSVII-DODQORPLPILDEKQVRLIGCDINTAVVLEVIDKTKTNDPDKRANKV
 31238489.i LAQFFFEEDDVFVAYGG-NEVGFNNDELEAAEKAIAHKTRLRSSTTRGPQPKMPVKSHNDTFVCVDDESALENG-GILPDSPILPELEAKMNTLSEISVCDGDNFAVWLRKDKNHSTPYALKII
 40254281.m LQDFRDDDVFVIAQCPPEKRYAQDDFVLDHSECRVLKSS-YSR-ASAAYKSGSRSPGFSRRSKSPAS-VNCPPSSQLTPTGKTSKSSSSPTPSQGQI-QI-AQGRSSSNVNGP
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 17985955.m LQDFRDDDVFVIAQCPPEKRY-ODDFLLDESECRVVKSTSYTKIASASRGRGTTKSPGSPRSRSPSKPASTSSVNPCTPGQQLSTPSGKSPSPSPSPTPSQGQI-KRIS-QHGG
 9910164.m LQDFRDDDVFVIAQCPPEKRY-ODDFLLDESECRVVKSTSYTKIASASRGRGTTKSPGSPRSRSPSKPASTSSVNPCTPGQQLSTPSGKSPSPSPSPTPSQGQI-KRIS-QHGG
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 34857906.m YVGCVMERIVASVSSSLSDNQGGSVSEAVGLGLSLCCRCPVAGLQVG-VNCPPSSQSLSTPKTSSSSPTPSQGSPRGIAGINITPSSNNNSVSCSPAVFLGTMKQQLLWPW
 2phk_A TAKLHG-GVENVREPKIILGR-VS-SVSPKCIKRPCKEYALKII
 1jkk_A TAKLHG-GVENVREPKIILGR-VS-SVSPKCIKRPCKEYALKII
 34866453.m HPQGVAKAQKDLMBGLPAVEEGAVDARRDSRHTCRKHAawlRQQAEPPLPRTREEKEAHEKKSGGLCRM-LEKEISKIKPEENPPEPSG-RKLRPTGITEAD
 27370432.m HPGQCAPKAQKDLVQGPPAVEEGIDMRREDHTCRKHAawlRREQAEPPOLPRTREEKEQAEHEKKPGGLCERRA-PEKESSKKLEEEKPPPSG-RKPRPK
 DCAMKL3.h HAQQAAKAKKDLEEVLPVTEEGLREVKKDTRPMRSKHHGWLRLREHQAGFEKLRLTRREEKEKKPCMSGRRMTRLDQPAKLEKEPKTRPEENPPEPSG-R
 lia8_A
 1kwp_A
 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800
 25144034.w ARE-NVIGKBEHLTEMLALIQLKID-HITFVQYDWF-VDDSYYLISLLEIIMCGDLFBLRIL-VRRVPERDARVMMTCQGOALEYTHEGIVHRDVRENLL
 31238489.i DKS-KCAGKBEHYAACIRVMKLLN-PFYIICVHWDIE-TMKNMYLVLVERGKGDLFDAIT-S-
 40254281.m DKA-KCCKGKBEHLLIENIVSILRRVK-BPNLIMVVEEME-TAIDFLVMLVELVKCGDLFDAIT-S-
 DCAMKL2.h DKA-KCCKGKBEHLLIENIVSILRRVK-BPNLIMVVEEME-TAIDFLVMLVELVKCGDLFDAIT-S-
 17985955.m IKS-KCCKGKBEHLLIENIVSILRRVK-BPNLIVDIECMD-VPIEYLVMLVELVKCGDLFDAIT-S-
 9910164.m IKS-KCCKGKBEHLLIENIVSILRRVK-BPNLIVDIECMD-VPIEYLVMLVELVKCGDLFDAIT-S-
 DCAMKL1.h IKS-KCCKGKBEHLLIENIVSILRRVK-BPNLIVDIECMD-VPIEYLVMLVELVKCGDLFDAIT-S-
 34857906.m DKA-KCCKGKBEHLLIENIVSILRRVK-BPNLIMVVEEME-TTIEFLVMLVELVKCGDLFDAIT-S-
 2phk_A DVTGGGSFSAEVEELREATLKVDTILRKVSGECPNIIQKDYIYE-TNTFFFLVEDMKGELFVYLT-EKVITSEKETRKINRALEVICALKHNTVHRD
 1jkk_A KPRTKSS-RRGVSREDIEEREVSLIKLQ-HPNVIITLHVY-NKDVHILLLVRLVCGELFDEELAE-KESLITEGEPEEFIKLNGVYVYHSLQI-
 34866453.m DKS-QLKGKEDIVSDELIQIQLQSLSPVLRKHEVYE-TEAIIYLMIVVQGGLDFDAIE-SVKEPEPDAANMMDICKAVALVHMHDGIVVHRD
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 DCAMKL3.h DKS-RLKGKEDIVSDELIQIQLQSLSPVLRKHEVYE-TEAIIYLMIVVQGGLDFDAIE-SVKEPEPDAANMMDICKAVALVHMHDGIVVHRD
 lia8_A DPK-RAVDCENIKCICICNEN-KHKKFVYGHRR-EGNCFYIPLYCQGGELFRIEP-DIGMPEAORFFHOMASVWYIHLIGI-
 1kwp_A PCP-KARRVWEIWRASCOPIHVRDVYDVEIYDAGRKCLIVMCLDGGELFRIEDGRDQAFTEREASEINKSGEAIQHLINTAHRDVRENLL
 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000
 25144034.w IVKDFEG-ELGQVLAIDCLAEKFDF-GVSTICGPTTYVAPVVLN-
 31238489.i VELDSGNDVNVILQKGDGCLACEYD-
 40254281.m VGYCPDCTRSLSLKGQDGLPQVYEG-
 DCAMKL2.h VGYCPDCTRSLSLKGQDGLPQVYEG-
 17985955.m VGYCPDCTRSLSLKGQDGLPQVYEG-
 9910164.m VGYCPDCTRSLSLKGQDGLPQVYEG-
 DCAMKL1.h VGYCPDCTRSLSLKGQDGLPQVYEG-
 34857906.m WPPPLVSAAFATGKLQSLLEEMTLMPPTGLVTAERPAPRSSGLLTAEWPAEAAPRSSAVDIVPSGLVQGERPLTSDPYPSCTVSYCYPD
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 1jkk_A LDDMMIKUTDDEGRCQDPG-EK-
 34866453.m LDDMMIKUTDDEGRCQDPG-EK-
 27370432.m LDDMMIKUTDDEGRCQDPG-EK-
 DCAMKL3.h LDDMMIKUTDDEGRCQDPG-EK-
 lia8_A LDDMMIKUTDDEGRCQDPG-EK-
 1kwp_A LDDMMIKUTDDEGRCQDPG-EK-
 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000
 25144034.w IVKDFEG-ELGQVLAIDCLAEKFDF-GVSTICGPTTYVAPVVLN-
 31238489.i RVEFDGKQDGTGQVYEG-
 40254281.m RVEFDGKQDGTGQVYEG-
 DCAMKL2.h RVEFDGKQDGTGQVYEG-
 17985955.m RVEFDGKQDGTGQVYEG-
 9910164.m RVEFDGKQDGTGQVYEG-
 DCAMKL1.h RVEFDGKQDGTGQVYEG-
 34857906.m RVEFDGKQDGTGQVYEG-
 2phk_A RVEFDGKQDGTGQVYEG-
 1jkk_A RVEFDGKQDGTGQVYEG-
 34866453.m RVEFDGKQDGTGQVYEG-
 27370432.m RVEFDGKQDGTGQVYEG-
 DCAMKL3.h RVEFDGKQDGTGQVYEG-
 lia8_A RVEFDGKQDGTGQVYEG-
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 17985955.m RVEFDGKQDGTGQVYEG-
 9910164.m RVEFDGKQDGTGQVYEG-
 DCAMKL1.h RVEFDGKQDGTGQVYEG-
 34857906.m RVEFDGKQDGTGQVYEG-
 2phk_A RVEFDGKQDGTGQVYEG-
 1jkk_A RVEFDGKQDGTGQVYEG-
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 1kwp_A RVEFDGKQDGTGQVYEG-

